

2-19 Little America Core : U846

Sample ID:	Depth:	Major	Minor	Trace	Description/Environment
LA219-2200-1A	2200'	northupite, trona	nahcolite	calcite	Resistant green colored crystal (gummy texture) found within recrystallized evaporite unit which was originally a perennial saline lake deposit that has undergone diagenesis. The drill likely sampled from the surrounding evaporite unit as well as the displacive growth crystal.

LA219-2261'-2B      2261'      trona      dolomite



1 cm



Elongate rhombohedral displacive growth crystal (~10cm) in lean laminated oil shale, similar in appearance to those seen along margins in outcrop that have been previously described as shortite pseudomorphs after calcite after dolomite. Because deep core samples have not been exposed to extensive surface alteration as outcrop sample and though the crystal shows some signs of recrystallization in the white, powdery texture it now displays but it is suggested here that the crystal was originally pirssonite, has been or is being replaced by trona and that outcrop examples were never shortite or calcite and that the expanse of shortite in the GRB may not be as large as previously speculated.

LA219-2261'-1A      2261'      trona

Nearby mosaic-pattered displacive growth crystal in laminated lean oil shale.